



City of Kenmore
 18120 68th Avenue NE
 Kenmore, WA 98028
 425-398-8900

Date:

Environmentally Critical Area Mitigation Bond Quantity Worksheet

Project Name:

Project Number:

Location:

Prepared By:

Address:

PLANT MATERIALS:

Plant Material prices include labor, installation, contractors' markup and sales tax, but don't include delivery. (128% of wholesale plant price plus "planting" from page 5.)

TREES										
Scientific Name	Common Name	Unit Price	Qty	Unit Price	Qty	Unit Price	Qty	Unit Price	Qty	Total Cost
		4" pot		1 gallon		2 gallon		5 gallon		
<i>Abies grandis</i> *	grand fir									\$ -
<i>Acer macrophyllum</i>	big leaf maple			\$ 13.54						\$ -
<i>Alnus rubra</i>	Red alder			\$ 13.22						\$ -
<i>Arbutus menziesii</i>	Pacific madrone			\$ 14.50						\$ -
<i>Betula papyrifera</i>	paper birch			\$ 13.22						\$ -
<i>Fraxinus latifolia</i>	Oregon ash			\$ 13.22		\$ 23.51				\$ -
<i>Picea sitchensis</i> *	Sitka spruce			\$ 13.54		\$ 24.15				\$ -
<i>Pinus contorta</i> *	Shore pine			\$ 13.54		\$ 24.15				\$ -
<i>Pinus monticola</i> *	Western white pine			\$ 13.54		\$ 24.15				\$ -
<i>Populus tremuloides</i>	quaking aspen					\$ 24.15				\$ -
<i>Populus trichocarpa</i>	black cottonwood			\$ 13.54		\$ 23.51				\$ -
<i>Prunus emarginata</i>	bitter cherry			\$ 13.54						\$ -
<i>Pseudotsuga menziesii</i> *	Douglas fir			\$ 13.54		\$ 23.51		\$ 44.74		\$ -
<i>Taxus brevifolia</i> *	Pacific yew									\$ -
<i>Thuja plicata</i> *	western red cedar			\$ 13.54		\$ 23.51		\$ 44.74		\$ -
<i>Tsuga heterophylla</i> *	western hemlock			\$ 13.54		\$ 23.82		\$ 44.74		\$ -

All plant prices are from Fourth Corner Nurseries, Sound Native Plants, Storm Lake Growers, and Wabash Natives (containers); and Abundant Life and Frosty Hollow (seeds).

SHRUBS										
Scientific Name	Common Name	Unit Price 4" pot	Qty	Unit Price 1 gallon	Qty	Unit Price 2 gallon	Qty	Other	Qty	Total Cost
<i>Acer circinatum</i>	vine maple			\$ 13.54		\$ 23.51				\$ -
<i>Amelanchier alnifolia</i>	serviceberry			\$ 13.54		\$ 23.82				\$ -
<i>Berberis aquifolium</i>	tall Oregon grape					\$ 24.15				\$ -
<i>Berberis nervosa</i>	short Oregon grape			\$ 13.86						\$ -
<i>Cornus stolonifera</i>	red-osier dogwood			\$ 13.22		\$ 23.51				\$ -
<i>Corylus cornuta</i>	hazelnut			\$ 13.54		\$ 23.51				\$ -
<i>Crataegus douglasii</i>	black hawthorn			\$ 13.22		\$ 23.51				\$ -
<i>Gaultheria shallon</i>	salal	\$ 1.89		\$ 13.86						\$ -
<i>Holodiscus discolor</i>	ocean spray			\$ 13.54		\$ 23.51				\$ -
<i>Lonicera involucrata</i>	black twinberry			\$ 13.54		\$ 22.87				\$ -
<i>Myrica gale</i>	sweetgale									\$ -
<i>Oemleria cerasiformis</i>	Indian plum			\$ 13.54		\$ 23.51				\$ -
<i>Oplopanax horridus</i>	Devil's club			\$ 13.86		\$ 24.15				\$ -
<i>Philadelphus lewisii</i>	mock orange			\$ 13.54		\$ 22.87				\$ -
<i>Physocarpus capitatus</i>	Pacific ninebark			\$ 13.22		\$ 23.51				\$ -
<i>Prunus virginiana</i>	choke cherry									\$ -
<i>Pyrus fusca</i>	western crabapple			\$ 13.22		\$ 23.51				\$ -
<i>Rhamnus purshiana</i>	cascara			\$ 13.22		\$ 23.51				\$ -
<i>Rhododendron macrophyllum</i>	Pacific rhododendron			\$ 14.19						\$ -
<i>Ribes bracteosum</i>	stink currant			\$ 13.22						\$ -
<i>Ribes lacustre</i>	prickly currant			\$ 13.86						\$ -
<i>Ribes sanguineum</i>	red-flowering currant			\$ 13.86						\$ -
<i>Rosa gymnocarpa</i>	Wood rose			\$ 13.54		\$ 24.15				\$ -
<i>Rosa nutkana</i>	Nootka rose			\$ 13.54		\$ 23.51				\$ -
<i>Rosa pisocarpa</i>	clustered rose			\$ 13.54		\$ 22.87				\$ -
<i>Rubus leucodermis</i>	black raspberry									\$ -
<i>Rubus parviflorus</i>	thimbleberry			\$ 13.54						\$ -
<i>Rubus spectabilis</i>	salmonberry			\$ 13.22		\$ 23.51				\$ -
<i>Salix geyeriana</i>	Geyer willow			\$ 13.22		\$ 22.87				\$ -
<i>Salix hookeriana</i>	Hooker's willow			\$ 12.91		\$ 22.87				\$ -
<i>Salix lasiandra</i>	Pacific willow			\$ 13.22		\$ 22.87				\$ -
<i>Salix scouleriana</i>	Scouler willow									\$ -
<i>Salix sitchensis</i>	Sitka willow			\$ 13.22		\$ 22.87				\$ -
<i>Sambucus racemosa</i>	red elderberry			\$ 13.54		\$ 23.51				\$ -
<i>Sorbus sitchensis</i>	Cascade mountain ash									\$ -
<i>Symphoricarpos albus</i>	snowberry			\$ 13.22		\$ 23.51				\$ -
<i>Vaccinium ovatum</i>	evergreen huckleberry			\$ 13.86						\$ -
<i>Vaccinium parvifolium</i>	red huckleberry	\$ 2.91		\$ 15.47						\$ -

Sedges and Rushes										
Scientific Name	Common Name	Unit Price	Qty	Unit Price	Qty	Unit Price	Qty		Qty	Total
		4" pot		Seeds/oz.		2 gallon		Other		Cost
<i>Carex comosa</i>	Bristly sedge	\$ 1.32								\$ -
<i>Carex lenticularis</i>	Shore sedge	\$ 1.32								\$ -
<i>Carex lyngbyei</i>	Lyngby sedge	\$ 1.32								\$ -
<i>Carex obnupta</i>	Slough sedge	\$ 1.32		\$ 19.20						\$ -
<i>Carex rostrata (utriculata)</i>	Beaked sedge	\$ 1.32								\$ -
<i>Carex stipata</i>	Sawbeak sedge	\$ 1.32								\$ -
<i>Eleocharis acicularis</i>	Spikerush									\$ -
<i>Eleocharis palustris</i>	Common Spikerush	\$ 1.32								\$ -
<i>Juncus acuminatus</i>	Tapered rush	\$ 1.32								\$ -
<i>Juncus articulatus</i>	Jointed rush									\$ -
<i>Juncus effusus</i> (var. <i>pacificus</i> , <i>gracilis</i> native to PNW)	Soft rush	\$ 1.32								\$ -
<i>Juncus ensifolius</i>	Dagger leaf rush	\$ 1.32								\$ -
<i>Juncus oxymeris</i>	Pointed rush	\$ 1.06								\$ -
<i>Scirpus acutus</i>	Hardstem bulrush	\$ 1.32		\$ 23.04						\$ -
<i>Scirpus maritimus</i>	Saltmarsh bulrush	\$ 1.32								\$ -
<i>Scirpus microcarpus</i>	Small-fruited bulrush	\$ 1.32								\$ -
Grasses										
Scientific Name	Common Name	Unit Price	Qty	Unit Price	Qty	Unit Price	Qty		Qty	Total
		4" pot		Seeds/oz.		2 gallon				Cost
<i>Alopecurus aequalis</i>	Short-awn foxtail									\$ -
<i>Alopecurus geniculatus</i>	Water foxtail	\$ 1.00								\$ -
<i>Beckmannia syzigachne</i>	American sloughgrass	\$ 1.20		\$ 3.04						\$ -
<i>Calamagrostis canadensis</i>	Bluejoint reedgrass									\$ -
<i>Cinna latifolia</i>	Wood reed									\$ -
<i>Deschampsia caespitosa</i>	Tufted hairgrass	\$ 1.06		\$ 9.60						\$ -
<i>Elymus glaucus</i>	Blue wildrye			\$ 1.36						\$ -
<i>Festuca idahoensis</i>	Idaho fescue			\$ 3.52						\$ -
<i>Festuca rubra</i> var. <i>rubra</i>	Red fescue			\$ 4.79						\$ -
<i>Glyceria borealis (occidentalis)</i>	Northern mannagrass			\$ 1.60						\$ -
<i>Glyceria elata</i>	Tall mannagrass	\$ 1.45		\$ 1.60						\$ -
<i>Panicum occidentale</i>	Western panic-grass									\$ -
Ferns										
Scientific Name	Common Name	Unit Price	Qty	Unit Price	Qty	Unit Price	Qty		Qty	Total
		4" pot		1 gallon		2 gallon				Cost
<i>Athyrium filix-femina</i>	lady fern			\$ 13.86						\$ -
<i>Blechnum spicant</i>	deer fern			\$ 13.86						\$ -
<i>Dryopteris expansa</i>	shield fern			\$ 13.54						\$ -
<i>Polystichum munitum</i>	western sword fern			\$ 13.86						\$ -
<i>Pteridium aquilinum</i>	bracken									\$ -

<i>Herbs and Groundcovers</i>										
Scientific Name	Common Name	Unit Price	Qty	Unit Price	Qty	Unit Price	Qty		Qty	Total
		4" pot		1 gallon		Seeds/oz.				Cost
<i>Achillea millefolium</i>	Yarrow					\$ 11.52				\$ -
<i>Anaphalis margaritacea</i>	Pearly everlasting					\$ 7.68				\$ -
<i>Arctostaphylos uva-ursi</i>	Kinnikinnick	\$ 2.27				\$ 33.28				\$ -
<i>Aruncus dioicus</i>	Goat's beard			\$ 13.54		\$ 33.28				\$ -
<i>Caltha palustris</i>	Marsh marigold			\$ 14.19		\$ 20.48				\$ -
<i>Dicentra formosa</i>	Bleeding heart	\$ 2.27		\$ 13.22		\$ 122.88				\$ -
<i>Epilobium angustifolium</i>	Fireweed					\$ 61.44				\$ -
<i>Fragaria chiloensis</i>	Coast strawberry	\$ 2.27				\$ 57.60				\$ -
<i>Geum macrophyllum</i>	Big-leaf avens	\$ 2.27				\$ 51.20				\$ -
<i>Heracleum lanatum</i>	Cow parsnip	\$ 1.45								\$ -
<i>Hydrophyllum tenuipes</i>	Pacific waterleaf	\$ 2.27				\$ 17.92				\$ -
<i>Linnaea borealis</i>	Twinflower	\$ 2.27				\$ 143.46				\$ -
<i>Lupinus polyphyllus</i>	Big-leaf lupine					\$ 6.72				\$ -
<i>Lysichiton americanum</i>	Skunk cabbage			\$ 13.86						\$ -
<i>Maianthemum dilatatum</i>	Wild lily of the valley	\$ 2.27								\$ -
<i>Mimulus guttatus</i>	Yellow monkey flower	\$ 2.27				\$ 128.00				\$ -
<i>Myosotis laxa</i>	Small forget-me-not					\$ 26.88				\$ -
<i>Oenanthe sarmentosa</i>	Water parsley			\$ 12.58		\$ 44.80				\$ -
<i>Osmorhiza chiloensis</i>	Sweet cicely					\$ 44.80				\$ -
<i>Oxalis oregana</i>	Wood-sorrel	\$ 2.27				\$ 89.60				\$ -
<i>Petasites frigidus</i>	Coltsfoot			\$ 13.22						\$ -
<i>Polygonum persicaria</i>	Lady's thumb									\$ -
<i>Potentilla fruticosa</i>	Bush potentilla									\$ -
<i>Smilacina stellata</i>	Solomon's Star	\$ 2.27								\$ -
<i>Stachys cooleyae</i>	Great betony					\$ 102.40				\$ -
<i>Tellima grandiflora</i>	Fringecup					\$ 38.40				\$ -
<i>Tiarella trifoliata</i>	Foamflower					\$ 143.46				\$ -
<i>Tolmiea menziesii</i>	Piggy-back plant	\$ 2.27				\$ 102.40				\$ -
<i>Viola glabella</i>	Stream violet	\$ 2.27								\$ -

INSTALLATION COSTS (LABOR, EQUIPMENT, OVERHEAD & PROFIT)

Type	Unit Price	Unit	Quantity						Total
Compost, vegetable, delivered and spread	\$ 37.88	CY							\$ -
Decompacting till/hardpan, medium, to 6" depth	\$ 1.57	CY							\$ -
Decompacting till/hardpan, medium, to 12" depth	\$ 1.57	CY							\$ -
Fertilize, slow release tablets, 30gm/tree	\$ 3.21	Each							\$ -
Hydroseeding	\$ 0.51	SY							\$ -
Labor, general (landscaping)	\$ 25.00	HR							\$ -
Labor, general (construction)	\$ 37.00	HR							\$ -
Labor: Consultant, supervising	\$ 55.00	HR							\$ -
Labor: Consultant, on-site re-design	\$ 95.00	HR							\$ -
PLANTS: Potted, 4" diameter, medium	\$ 0.68	Each							\$ -
PLANTS: Container, 1 gallon, medium soil	\$ 10.02	Each							\$ -
PLANTS: Container, 2 gallon, medium soil	\$ 16.47	Each							\$ -
PLANTS: Container, 5 gallon, medium soil	\$ 29.38	Each							\$ -
PLANTS: Seeding, by hand	\$ 0.44	SY							\$ -
PLANTS: Slips (willow, red-osier)	\$ 1.32	Each							\$ -
PLANTS: Stakes (willow)	\$ 0.96	Each							\$ -
Rental of decompacting machinery & operator	\$ 70.65	Hour							\$ -
Sand, coarse builder's, delivered and spread	\$ 42.06	CY							\$ -
Staking material (set per tree)	\$ 7.00	Each							\$ -
Surveying, line & grade	\$ 605.44	DAY							\$ -
Surveying, lot location & lines	\$ 1,353.60	ACRE							\$ -
Surveying, topographical	\$ 2,160.00	ACRE							\$ -
Tilling topsoil, disk harrow, 20hp tractor, 4"-6" deep	\$ 1.02	SY							\$ -

OTHER COSTS — THROUGHOUT MONITORING PERIOD

Type	Unit Price	Unit	Quantity						Total
Inspection, annual	\$ 460.00	EACH							\$ -
Inspection, final	\$ 575.00	EACH							\$ -
Maintenance, semi-annual									\$ -
Maintenance, annual									\$ -
Monitoring, annual									\$ -
Watering, 1" of water, 50' soaker hose	\$ 3.62	MSF							\$ -
Irrigation - temporary	\$ 2,000.00	Acre							\$ -
Irrigation - buried	\$ 4,500.00	Acre							\$ -

HABITAT STRUCTURES (includes delivery)

ITEMS	Unit Cost	Unit	Quantity						Total
Fascines (willow)		Each							\$ -
Logs, (cedar), w/ root wads, 16"-24" diam., 40' long	\$ 1,000.00	Each							\$ -
Logs (cedar) w/o root wads, 16"-24" diam., 40'	\$ 400.00	Each							\$ -
Logs, w/o root wads, 16"-24" diam., 40' long	\$ 245.00	Each							\$ -
Logs w/ root wads, 16"-24" diam., 40' long	\$ 460.00	Each							\$ -
Rocks, one-man	\$ 60.00	Each							\$ -
Rocks, two-man	\$ 85.00	Each							\$ -
Root wads	\$ 163.00	Each							\$ -
Spawning gravel, type A	\$ 22.00	CY							\$ -
Weir - log	\$ 1,500.00	Each							\$ -
Weir - adjustable	\$ 2,000.00	Each							\$ -
Woody debris, large	\$ 163.00	Each							\$ -
Snags - anchored	\$ 400.00	Each							\$ -
Snags - on site	\$ 50.00	Each							\$ -
Snags - imported	\$ 800.00	Each							\$ -

EROSION CONTROL

ITEMS	Unit Cost	Unit	Quantity						Total
Backfill and Compaction-embankment	\$ 4.89	CY							\$ -
Crushed surfacing, 1 1/4" minus	\$ 74.30	CY							\$ -
Ditching	\$ 7.03	CY							\$ -
Excavation, bulk	\$ 1.30	CY							\$ -
Fence, silt	\$ 1.20	LF							\$ -
Jute Mesh	\$ 1.26	SY							\$ -
Mulch, by hand, straw, 2" deep	\$ 1.27	SY							\$ -
Mulch, by hand, wood chips, 2" deep	\$ 3.25	SY							\$ -
Mulch, by machine, straw, 1" deep	\$ 0.32	SY							\$ -
Piping, temporary, CPP, 6"	\$ 9.30	LF							\$ -
Piping, temporary, CPP, 8"	\$ 14.00	LF							\$ -
Piping, temporary, CPP, 12"	\$ 18.00	LF							\$ -
Plastic covering, 6mm thick, sandbagged	\$ 2.00	SY							\$ -
Rip Rap, machine placed, slopes	\$ 33.98	CY							\$ -
Rock Constr. Entrance 100'x15'x1'	\$ 2,546.68	Each							\$ -
Rock Constr. Entrance 50'x15'x1'	\$ 1,273.34	Each							\$ -
Sediment pond riser assembly	\$ 1,695.11	Each							\$ -
Sediment trap, 5' high berm	\$ 15.57	LF							\$ -
Sediment trap, 5' high berm w/spillway incl. riprap	\$ 59.60	LF							\$ -
Sodding, 1" deep, level ground	\$ 5.24	SY							\$ -
Sodding, 1" deep, sloped ground	\$ 6.48	SY							\$ -
Straw bales, place and remove	\$ 432.00	TON							\$ -
Topsoil, delivered and spread	\$ 35.73	CY							\$ -

